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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/025,958	12/18/2001	James O. Gilkerson	279.209US2	2116
21186	7590	03/26/2007	EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.			EVANISKO, GEORGE ROBERT	
P.O. BOX 2938			ART UNIT	PAPER NUMBER
MINNEAPOLIS, MN 55402			3762	
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	03/26/2007	PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/025,958	GILKERSON ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	George R. Evanisko	3762	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### **Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 12 December 2006.

2a)  This action is **FINAL**.                    2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## **Disposition of Claims**

4)  Claim(s) 14-46 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5)  Claim(s) \_\_\_\_\_ is/are allowed.  
6)  Claim(s) 14-40 is/are rejected.  
7)  Claim(s) 41-46 is/are objected to.  
8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 12/12/06.

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_ .  
5)  Notice of Informal Patent Application  
6)  Other: \_\_\_\_\_ .

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 18-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 18, line 6, “artificial intelligence” is inferentially included and it is unclear whether the claim is functionally reciting the intelligence or positively reciting the intelligence. The examiner has interpreted the claim as containing the intelligence. It is suggested to first positively recite the element before it is related to a function/element.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Snell (5716382). Snell discusses the selection of the clinical rhythm as the selection of atrial fibrillation (e.g. figure 5) and further discusses the plurality of detection enhancements (set of rules for when to deliver therapy) as the different ways that therapy is required (e.g. figure 6, such as when intermittent AF). Snell further discloses that one or multiple recommendations will be made by the rule engine of which the physician can choose from (e.g. col. 6, lines 15-40)

and therefore provides the claimed “user-provided selection to modify the selection of the at least on detection enhancement”.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 17-21, 30-34, 37, and 39 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Snell. Snell discloses that the display displays different questions and recommendations and parameters based upon the answered questions. Since the screen will be updated with the questions and parameters, each is considered a different screen/layer. In addition, the system uses a rules engine, such as deduction oriented or antecedent consequence, which is considered artificial intelligence since it is not calculated by a human and/or it imitates human intelligence. In addition, it is noted that the selection of AF is the capability to select a number (one) of tachyarrhythmia zones and it

allows the selection of the detection enhancement that inhibits therapy for AF since if "no" is chosen for AF it will not address AF.

In the alternative, Snell discloses the claimed invention except for the screens/layers and the use of artificial intelligence to select a detection enhancement. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the computer and display system and method as taught by Snell, with the screen/layers and the use of artificial intelligence to select a parameter, such as a detection enhancement, since it was known in the art that computer and display systems and methods use different screens and layers to provide information in an easy to understand format that is not crowded/busy with other information and since it was known to use artificial intelligence to select a parameter to allow the system to be automated and reduce the human interaction with the computer and results.

Claims 22, 23, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Snell as applied to claims above. Snell discloses the claimed invention except for the indicator indicating the changed parameter has been programmed, the warning indicator for parameter interaction, and the screen providing an ECG display. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the heart computer and display system and method as taught by Snell, with the indicator indicating the changed parameter has been programmed, the warning indicator for parameter interaction, and the screen providing an ECG display since it was known in the art that heart computer and display systems and methods use: an indicator indicating the changed parameter has been programmed to allow the physician to know the parameter has been changed so he does not have to wonder if it has been changed; a warning indicator for parameter interaction to allow the physician to change a

parameter if there is an interaction that he did not know about or realize; and the screen providing an ECG display to allow the physician to monitor the sensing by the electrodes and how the system functions.

### ***Double Patenting***

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 14-23 and 30-40 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of copending Application No. 11/369142 and over claims 1-27 of 11/379742. Although the conflicting claims are not identical, they are not patentably distinct from each other because the copending application’s claims are narrower and meet the limitations of this application’s broader claims. In addition, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate into the copending application’s claims the recommendation of a detection enhancement, a module to allow the user to select another enhancement, the

multiple layers/screens for displaying the data, a changed parameter indicator, a warning indicator, and a ECG screen since it would provide an automated system that takes the guess work out of choosing an enhancement but that also allows the physician to choose what he considers a better treatment/option and since it would provide multiple layers/screens for displaying the data to provide information in an easy to understand format that is not crowded/busy with other information and: an indicator indicating the changed parameter has been programmed to allow the physician to know the parameter has been changed so he does not have to wonder if it has been changed; a warning indicator for parameter interaction to allow the physician to change a parameter if there is an interaction that he did not know about or realize; and the screen providing an ECG display to allow the physician to monitor the sensing by the electrodes and how the system functions.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 14-23, 30-34, and 37-39 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-13 of U.S. Patent No. 6493579. Although the conflicting claims are not identical, they are not patentably distinct from each other because the patented claims are narrower and meet the limitations of this application's broader claims. In addition, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate into the patented claims the recommendation of a detection enhancement, a module to allow the user to select another enhancement, the multiple layers/screens for displaying the data, a changed parameter indicator, a warning indicator, and a

ECG screen since it would provide an automated system that takes the guess work out of choosing an enhancement but that also allows the physician to choose what he considers a better treatment/option and since it would provide multiple layers/screens for displaying the data to provide information in an easy to understand format that is not crowded/busy with other information and: an indicator indicating the changed parameter has been programmed to allow the physician to know the parameter has been changed so he does not have to wonder if it has been changed; a warning indicator for parameter interaction to allow the physician to change a parameter if there is an interaction that he did not know about or realize; and the screen providing an ECG display to allow the physician to monitor the sensing by the electrodes and how the system functions.

Claims 14-23, 30-34, and 37-39 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 7 and 16 of U.S. Patent No. 6522925. Although the conflicting claims are not identical, they are not patentably distinct from each other because the patented claims are narrower and meet the limitations of this application's broader claims. In addition, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate into the patented claims the recommendation of a detection enhancement, a module to allow the user to select another enhancement, the multiple layers/screens for displaying the data, a changed parameter indicator, a warning indicator, and a ECG screen since it would provide an automated system that takes the guess work out of choosing an enhancement but that also allows the physician to choose what he considers a better treatment/option and since it would provide multiple layers/screens for displaying the data to

provide information in an easy to understand format that is not crowded/busy with other information and: an indicator indicating the changed parameter has been programmed to allow the physician to know the parameter has been changed so he does not have to wonder if it has been changed; a warning indicator for parameter interaction to allow the physician to change a parameter if there is an interaction that he did not know about or realize; and the screen providing an ECG display to allow the physician to monitor the sensing by the electrodes and how the system functions.

***Allowable Subject Matter***

Claims 41-46 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 24-29 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George R. Evanisko whose telephone number is 571 272 4945. The examiner can normally be reached on M-F 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on 571 272 4955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

George R Evanisko  
Primary Examiner  
Art Unit 3762

GRE  
3/16/07

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